

## CLIMATOLOGICAL DATA FOR JANUARY, 1912.

## DISTRICT NO. 8, TEXAS AND THE RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

## GENERAL SUMMARY.

January was a remarkably dry and relatively cold month. It was the driest January of record in New Mexico, while in Texas there were but 2 months of that name which were drier. The first half of the month was abnormally cold, with sharp and frequent changes of temperature; the latter half was comparatively warm in the western portion of the district and seasonable in the eastern. Severe cold waves overspread the greater portion of the district on the 6th and 11th, both giving temperatures below freezing to the extreme lower Texas coast. The latter was remarkable for its rapid movement and gave the coldest weather of the month in Texas. The cold and dry weather of the month, following the heavy rains of December, was generally favorable, as it kept vegetation and especially fruit trees in a dormant state. The precipitation was decidedly deficient except over a limited area in the extreme upper and extreme lower portions of the Rio Grande Valley. There was practically no precipitation at 1 station in Colorado, at 34 stations in New Mexico, and at 58 in Texas. The greatest monthly amounts were: In Colorado, 1.40 inches at Cumbres; in New Mexico, 1.37 inches at Anchor Mine; and in Texas, 4.24 inches at San Augustine. The average number of days with 0.01 inch or more of precipitation was 3 in Colorado, 1 in New Mexico, and 2 in Texas. The percentage of sunshine was large in the western portion of the district, and averaged near normal in the eastern portion.

The snowfall was exceedingly light, and the snow that remained on the ground at the close of December had nearly all disappeared from the plains and lower mountain districts by the middle of January. An unusual occurrence was a light fall of snow along the Texas coast on the 12th.

## TEMPERATURE.

The monthly mean temperature was  $3^{\circ}$  above the normal in Colorado;  $0.6^{\circ}$  below in New Mexico, and  $3.9^{\circ}$  below in Texas. The normal was exceeded, however, in extreme west Texas and over scattered areas in New Mexico. The coldest weather occurred in the western portion of the district from the 1st to 7th, and in the eastern portion on the 12th and 13th, when all unprotected tender vegetation was killed. The warmest weather occurred from the 23d to 27th. The diurnal range of temperature was large and varied from  $14^{\circ}$  on the Texas coast to about  $38^{\circ}$  in the northwestern portion of the district.

The highest and lowest temperatures reported were: In Colorado,  $56^{\circ}$  at Manassa on the 26th, and  $-35^{\circ}$  at Hermit on the 2d; in New Mexico,  $83^{\circ}$  at Carlsbad on the 26th, and  $-17^{\circ}$  at Tres Piedras on the 4th; and in Texas,  $93^{\circ}$  at Fort McIntosh on the 25th, and  $-5^{\circ}$  at Albany on the 6th and 12th. The local monthly means ranged from  $16.3^{\circ}$  to  $24.4^{\circ}$  in Colorado; from  $19.9^{\circ}$  to  $44^{\circ}$  in New Mexico; and from  $33.8^{\circ}$  to  $58.2^{\circ}$  in Texas.

## PRECIPITATION.

The precipitation over the Rio Grande watershed averaged 0.26 inch, which is 0.34 inch less than the normal. There was a slight excess in the extreme upper portion, and a considerable excess in the extreme lower portion of the watershed, while there was a marked deficiency over the long stretch from Santa Fe, N. Mex., to Fort McIntosh, Tex., over 60 per cent of the reporting stations in this region having practically no precipitation. The greatest monthly amount was 3.28 inches at Brownsville, Tex.

The average precipitation over the Rio Pecos watershed was only 0.08 inch, which is 0.56 inch below the normal. The deficiency extended over the entire watershed, but was most marked over the middle and lower portions. The greatest monthly amount was 0.83 inch at Winsors, N. Mex., while at 35 per cent of the reporting stations there was no precipitation.

The Texas watersheds also showed a marked deficiency in precipitation, the shortages ranging from 0.40 inch for the Neches drainage area to 1.70 inches for that of the Trinity. In general, the percentage of deficiency was greatest over the headwaters of these streams and decreased toward the Texas coast. The following are the average monthly amounts in inches for the various watersheds: Nueces, 0.21; San Antonio, 0.20; Guadalupe, 0.45; Lavaca, 0.48; Colorado, 0.17; Brazos, 0.22; Trinity, 0.43; Neches, 1.96; Sabine, 1.66; and coastal plains, 1.25. The greatest monthly amount was 4.24 inches at San Augustine, in the Neches watershed, while at 49 stations, mostly in the Colorado and Brazos watersheds, there was practically no precipitation.

## RIVER CONDITIONS.

There was a good flow at the beginning of the month in the Neches and Sabine, and in the lower portions of the Trinity, Brazos, and Colorado from the December rains, but by the 20th these streams were practically at low-water mark. The remaining streams of the district, as well as the upper portions of the Trinity, Brazos, and Colorado were abnormally low throughout the month.

## SNOWFALL IN THE MOUNTAINS.

The snowfall during January was generally local in character and less than the normal. The heaviest monthly fall in Colorado was 18.3 inches at Cumbres; and in New Mexico, 17 inches at Anchor Mine. The cold weather during the first half of the month checked melting and compacted the snow, so that the stored depth changed but little. At the close of the month the average depth for the extreme upper Rio Grande was 14 inches at an elevation of 9,300 feet. This is about the same as a year ago. Over the headwaters of the Rio Pecos the snowfall was light and there was some decrease in the stored depth. The snow in the foothills, mesas, and lower mountains disappeared gradually during the month, but the runoff was small and most of the moisture soaked into the ground.

## MONTHLY WEATHER REVIEW.

JANUARY, 1912

TABLE 1.—Climatological data for January, 1912. District No. 8, Texas and Rio Grande Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Sky.			Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Colorado.</i>																				
Blanca.	Costilla.	7,865	3								1.40	0.13	+ 0.02	0.56	18.3	7	16	12	3	Dr. L. C. Audrain.
Cumbres.	Conejos.	10,015	5									0.10	2.5	2	19	11	1	1	sw.	Mrs. Ida M. Lively.
Garnett.	Costilla.	7,576	19	19.5	+ 1.8	52	25	- 20	3	46	0.30		0.25	4.5	2	21	5	5	nw.	Chas. S. Spelser.
Hermit.	Hinsdale.	9,843	5					- 35	2		0.85		0.41	11.0	3	20	7	4	w.	Marlon Mason.
La Veta Pass.	Costilla.	9,000	2									T.	T.	0	22	5	4	sw.	Clara M. Wright.	
Manassa.	Conejos.	7,700	6	21.8		56	26	- 15	1	51	0.47		0.37	8.0	3	18	9	4	sw.	J. B. Chapman.
Photor.	do.	7,675	5								0.13	- 0.04	0.13	1.3	1	20	3	8	nw.	Walter R. Hook.
Saguache.	Saguache.	7,740	20	24.4	+ 4.3	55	22	- 13	2	54									Eugene Williams.	
San Luis.	Costilla.	7,794	21																P. B. Albright.	
Wagon Wheel Gap Experiment Station.	Mineral.	9,235	1	16.3		47	25	- 19	2	37	0.30		0.20	4.7	4	24	3	4	nw.	U. S. Weather Bureau.
<i>New Mexico.</i>																				
Agricultural College.	Dona Ana.	3,863	51	42.0	- 0.2	68	26	16	30	47	*T.	- 0.31	T.	0	0	17	10	4	w.	New Mexico Agr. College.
Alamogordo (near).	Otero.	4,338	15	40.8	- 3.7	74	26	8	3	53	0.04	- 0.52	0.04	0	1	15	11	5	w.	Charles Sutton.
Alamogordo.	do.	4,320	3								0.00		0.00	0					Agent E. P. & S. W. R. R.	
Alamos Ranch.	Sandoval.	7,800	2								T.		T.	0	28	3	0		Harold H. Brooks.	
Albuquerque.	Bernalillo.	5,000	36								0.02	- 0.36	0.02	0.2	1	24	6	3	w.	Pitt Ross, C. E.
Ancho.	Lincoln.	6,112	3								0.06		0.06	T.	1	22	6	3	w.	Agent E. P. & S. W. R. R.
Anchor Mine.	Taos.	10,600	1								1.37		0.75	17.0	5	23	3	5	ne.	C. H. Brigham.
Artesia.	Eddy.	3,350	4	42.4		82	26	7	12	55	T.		T.	0	21	2	2	se.	Will Benson, C. E.	
Aspen Grove Ranch.	Rio Arriba.	9,000	3								0.52		0.50	8.7	2	21	8	2	sw.	Junius D. Maupin.
Bateman's Ranch.	do.	8,900	3								0.83		0.57	6.6	4	22	6	3	w.	John W. Bateman.
Berino.	Dona Ana.	3,788	1	24.8	- 4.5	61	15	- 10	3†	57	T.	- 0.34	T.	0	27	2	0		J. C. Rishabergen.	
Bluewater.	Valencia.	6,732	10								0.00		0.00	0	0	24	7	0	n.	Bluewater Development Co.
Boaz.	Chaves.	4,154	3	38.8	- 4.5	74	25†	2	12	52	0.01		0.01	0	1	22	7	2	and	D. C. Savage.
Capitan.	Lincoln.	6,348	3								0.00		0.00	0	0	24	1	6	w.	Agent E. P. & S. W. R. R.
Carlsbad.	Eddy.	3,120	17	44.0	- 1.1	83	26	10	13	54	0.00	- 0.30	0.00	0	1	29	0	2	se.	U. S. Reclamation Service.
Carrizozo.	Lincoln.	5,429	4	39.1		67	18	14	2	43	T.		T.	0	29	5	0	sw.	Agent E. P. & S. W. R. R.	
Chama.	Rio Arriba.	7,851	14	19.9	- 4.1	50	15†	- 14	2†	41	0.79	- 1.42	0.38	13.0	3	26	3	2	sw.	Frank C. Johnson.
Cloudcroft.	Otero.	8,650	10	30.8	+ 1.1	52	14	9	28	34	0.06	- 1.56	0.04	0.8	2	22	4	5	sw.	Agent E. P. & S. W. R. R.
Corona.	Lincoln.	6,666	3								0.08		0.08	1.0	1	21	8	2	w.	Do.
Coyote.	do.	5,500	3								0.04		0.04	T.	1	28	2	1	sw.	Do.
Cundijo.	Santa Fe.	6,889	3								0.08		0.08	1.0	1	24	6	1	w.	Juan Vilij.
Demonstration Farm.	San Miguel.	6,800	3								0.03		0.02	0.6	2	0			Erik & Westerman.	
Duran.	Torrance.	6,272	3								0.07		0.07	1.0	1	29	0	2		Agent E. P. & S. W. R. R.
Escondido.	Otero.	4,014	3								T.		T.	0	0	25	1	5	n.	Do.
Espanola.	Rio Arriba.	5,590	14	28.0	- 2.6	60	26	- 2	3	47	0.12	- 0.19	0.12	2.0	1	26	5	0	n.	Mrs. E. F. McBride.
Estancia.	Torrance.	6,140	7	34.6 <sup>a</sup>		52 <sup>a</sup>	23†	16 <sup>a</sup>	21†	31 <sup>a</sup>	0.15	- 0.41	0.15	3.0	1	21	8	2	e.	Agent N. M. Centl. R. R.
Fort Stanton.	Lincoln.	6,231	35	37.4	+ 1.8	69	23	4	12	57	T.	- 0.48	T.	0	25	4	2	w.	U. S. Sanitarium.	
Fort Sumner.	Guadalupe.	3,960	4								0.90		0.90	11.0	1	16	12	3	nw.	F. A. Manzanares.
Gallinas.	Lincoln.	6,635	3								0.06		0.06	1.0	1	16	11	4	w.	Agent E. P. & S. W. R. R.
Gallinas Planting Sta.	San Miguel.	7,500	5	33.9		65	25	- 3	2	51	0.14		0.14	2.0	1	27	2	2	sw.	U. S. Forest Service.
Glorietta Ranch.	Socorro.	5,700	2								0.00		0.00	0	0	25	3	3	s.	Charles M. Crossman.
Harvey's Upper Ranch.	San Miguel.	8,400	3								0.29		0.16	6.2	3	18	13	0	se.	Simon B. Warner.
Hillsboro.	Sierra.	5,224	14								T.		T.	0	25	4	2	w.	Dr. F. I. Givens.	
Hodges.	Taos.	8,484	2								0.90		0.90	11.0	1	16	12	3	nw.	A. J. Armstrong.
Hondo Reservoir.	Chaves.	3,904	3	40.2		80	26	3	12	57	T.		T.	0	26	3	2	s.	U. S. Reclamation Service.	
Jemez Springs.	Sandoval.	6,100	2	32.3		56	25	3	2	33	T.		T.	0	22	4	5	s.	Linus L. Shields.	
Knowles.	Eddy.	4,300	2	35.9		74	26	5	12	53	0.01		0.01	0	1	23	1	7	sw.	J. W. Mosley.
Laguna.	Valencia.	5,840	7	34.6		63	26	4	1	42	0.00		0.00	0	0				Gus Weiss.	
Lagunita.	Guadalupe.	4,500	7								T.		T.	0	20	11	0	sw.	P. A. Turnbull.	
Lake Valley.	Sierra.	5,412	7								T.		T.	0	20	11	0	sw.	Wm. P. Keil.	
Lakewood.	Eddy.	3,170									0.00		0.00	0	0	24	2	5	se.	Miss J. Knapp.
Las Vegas.	San Miguel.	6,385	25	34.0	+ 0.4	69	25	- 3	2	51	0.02	- 0.40	0.02	0.4	1	28	2	1	sw.	N. Mex. Normal University.
Liston.	Chaves.	5,000	2								0.04		0.04	0	1	18	12	1	w.	H. G. Liston.
Los Lunas (near).	Valencia.	4,900	23	32.0	- 0.3	63	26	1	3	49	0.00	- 0.63	0.00	0	0	16	15	0	sw.	Richard Pohl.
Magdalena.	Socorro.	6,557	7	35.2		64	25	7	2†	37	T.		T.	0	26	5	0	w.	William Pender.	
Mescalero.	Otero.	6,627	1	34.4		60	14	7	3	38	0.04		0.04	0.3	1	27	2	2	sw.	Rev. R. H. Harper.
Mineral Hill.	San Miguel.	7,050	7								0.17		0.17	2.0	1	0	31	0	w.	W. M. Nelson.
Monterey.	Otero.	4,436	3								0.05		0.05	T.	1	27	4	0	w.	Agent E. P. & S. W. R. R.
Mountainair.	Torrance.	6,547	10	34.5	- 0.2	63	25	0	2	47	T.	- 0.61	T.	0	18	10	3	sw.	Miss Julia Hill.	
Newman.	Otero.	3,989	3								0.00		0.00	0	0	22	2	7	w.	Agent E. P. & S. W. R. R.
Noria.	Dona Ana.	4,114	3								0.00		0.00	0	0	25	6	0	w.	Do.
Orogrande.	Otero.	4,171	3								0.06		0.06	0	1	21	6	4	w.	Eugene F. Jones.
Oscura.	Lincoln.	5,016	3								0.01		0.01	0	1	22	2	7	se.	A. M. Hove.
Otis.	Eddy.	3,100	3								T.		T.	0	0	22	2	7	w.	O. H. Johnson.
Otto.	Santa Fe.	6,200	3								0.25		0.25	2.5	1	24	4	3	sw.	Agent E. P. & S. W. R. R.
Pastura.	Guadalupe.	5,285	3								0.08		0.08	1.3	1	24	4	3	sw.	George C. Ellis.
Placitas (near).	Bernalillo.	8,000	1	31.8		57	26	1	1†	36	0.09		0.09	2.0	1	25	3	3	w.	L. P. Adair.
Plainview.	Chaves.	4,300	1	38.0	+ 2.1	68	26	9	3	51	T.		T.	0	17	9	5	w.	Mrs. L. R. Penn.	
Red River Canyon.	Taos.	8,956	5	22.3		56	25	- 12	1	55	0.37		0.25	6.0	2	28	3	0	e.	Charles H. Raitt.
Rincon.	Dona Ana.	4,030	18	41.8	- 0.2	73	25†	13	3†	55	0.00	- 0.39	0.00	0	0	15	9	7	w.	U. S. Reclamation Service.
Rio Grande Dam.	Sierra.	4,265	22	41.8	+ 1.7	75	25	15	1†	45	T.	- 0.22</td								

TABLE I.—*Climatological data for January, 1912. District No. 8—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.			
<i>New Mexico—Contd.</i>																			
Tijeras Canyon.	Bernalillo.	6,214	2							0.08		0.08	1.5	1	28	1	2	sw.	
Torrance.	Torrance.	6,433	3							0.14		0.14	2.0	1	8	23	0	nw.	
Tres Piedras.	Taos.	8,076	9	22.8		52	26	-17	4	45	0.29	0.29	4.0	1	26	3	2	U. S. Forest Service.	
Truchas.	Rio Arriba.	7,935	3	25.1		50	23†	-4	3	38	0.11	0.11	1.4	1	13	11	7	U. S. Forest Service.	
Tularosa.	Otero.	4,436	3														w.		
Vaughn.	Gaudalupe.	5,952	3														I. L. Fairless.		
Virgilia.	Taos.	7,500	2	32.0		58	21	-4	3	38	0.20	0.10	2.5	4	23	8	3	Agent E. P. & S. W. R. R.	
Winsor's.	San Miguel.	8,200	16	26.2	-1.1	56	25	-4	29	50	0.83	-0.37	0.31	10.5	5	16	10	5	Dr. I. N. Woodman.
<i>Texas.</i>																	Henry D. Winsor.		
Abilene.	Taylor.	1,738	27	40.3	-2.3	81	26	2	12	45	T.	-0.90	T.	0	14	5	12	U. S. Weather Bureau.	
Albany.	Shackelford.	1,429	18	36.6	-6.6	85	26	-5	6†	51	0.00	-1.03	0.00	0	17	3	11	N. L. Bartholomew.	
Alice.	Jim Wells.	209	1	51.4		85	26	19	13	42	0.38	0.20	0	4	10	3	18	R. M. Boerum.	
Alpine.	Brewster.	4,482	2								T.	T.	T.	0	21	7	3	J. Frank Dobie.	
Alvin.	Brazoria.	49	14	48.6		78	26	18	12†	41	1.52	-1.70	0.93	0	4	6	6	Alvin Japanese Nursery.	
Anahuac.	Chambers.	23	3								2.38	0.90	0.1	6				B. H. Collins.	
Antelope.	Jack.	1									T.	T.	T.	0	15	12	4	Paul Rudolph.	
Aspermont.	Stonewall.										0.00	0.00	0	0	20	8	3	Bryant Link Co.	
Austin.	Travis.	593	56	45.6	-3.5	76	26	13	7†	47	0.27	-1.75	0.26	0	2	14	3	A. Deissen.	
Ballinger.	Runnels.	1,637	16	42.1	-3.3	83	26	5	12	49	T.	-0.66	T.	0	0	16	5	E. M. Eubank.	
Barstow.	Ward.	2,573	5	45.4		84	26	10	12	62	0.05		0.05	0.5	1	22	4	5	Lee F. Freeman.
Bay City.	Matagorda.	53	2								0.55	0.26	T.	4	15	2	14	E. C. Quereau.	
Beaumont.	Jefferson.	29	11	50.0	-4.2	82	26	24	9	35	2.77	+0.07	1.13	0	9	18	0	John Bender.	
Beeville.	Bee.	225	16	52.0	-3.2	78	11†	6	12	46	T.	-0.39	0.40	0	7	10	12	L. E. Dickey.	
Big Springs.	Howard.	2,396	14	42.2	-5.2	78	25†	6	12	46	T.	T.	T.	0	23	4	4	B. Reagan.	
Blanco.	Blanco.	1,350	16	46.8	-2.0	78	24†	12	12†	43	0.23	-0.86	0.18	T.	2	15	16	R. C. Crist.	
Boerne.	Kendall.	1,412	20	50.6	+0.9	87	26	18	6	53	0.34	-1.06	0.18	0	4	11	4	T. R. Booth.	
Bowie.	Montague.	1,113	17	37.4	-7.5	80	26	-2	12	46	T.	-0.91	T.	0	16	8	7	Craig Anderson.	
Brady.	McCullough.	1,500	11														J. W. Griffin.		
Brazoria.	Brazoria.	25	23	52.6	-2.0	82	26	18	12	53	1.26	-2.75	0.36	0	11	18	6	Mrs. M. A. Stevens.	
Brazos.	Palo Pinto.	801	3								0.00	0.00	0	0	14	14	3	Robt. E. Boyett.	
Brenham.	Washington.	350	27	46.0	-5.6	80	26	11	12†	41	0.73	-2.76	0.38	0	8	11	3	Mrs. B. F. Sloan.	
Bridgeport.	Wise.	754	3								0.14	0.14	0	1	15	7	9	Claude Strange.	
Brighton.	Nueces.	12	19	52.5	-5.3	81	18	20	13	44	1.03	-0.14	0.53	0	3	13	8	G. H. Ritter.	
Brownsville.	Cameron.	38	45	57.4	-1.7	87	26	24	13	42	3.28	+1.95	1.26	0	6			U. S. Weather Bureau.	
Brownwood.	Brown.	1,342	20	39.6	-7.9	85	26	5	13	54	T.	-1.31	T.	0	0	9	20	Mrs. Pearl Smith.	
Cameron.	Milan.	4	44.4			84	26	9	12	45	0.25		0.13	T.	6	12	5	J. E. Watts.	
Carmona.	Polk.	330	4	45.0		82	26	13	12†	35	2.96		1.05	T.	6	12	7	M. S. Spitler.	
Claytonville.	Fisher.	2,100	17	40.6	-3.8	88	25	3	7†	53	0.00	-0.65	0.00	0	0	15	9	Wm. Lanier.	
Clifton.	Boque.	671	1								0.05	0.05	0	1	10	6	15	R. M. Jones.	
Coleman.	Coleman.	1,710	18	44.0	-2.6	80	26	4	12	44	T.	-0.96	T.	0	0	11	14	J. E. Stevens.	
College Port.	Matagorda.																H. A. Clapp.		
College Station.	Brazos.	308	22	47.0	-4.2	79	26	10	12	41	0.92	-2.62	0.61	0	9	13	4	Prof. G. S. Fraps.	
Colorado.	Mitchell.	2,066	18	41.2	-5.8	82	25	4	7†	54	0.00	-0.48	0.00	0	21	6	4	R. M. Webb.	
Columbia.	Brazoria.	34	23	50.4	-3.5	80	26	12	12†	58	1.18	-2.24	0.50	0	3	14	2	R. B. Loggins.	
Columbus.	Colorado.	206	8								0.64	0.24	0	3	14	2	Mrs. Sophie Bridge.		
Corpus Christi.	Nueces.	20	25	51.6	-1.9	78	18	22	13	41	0.44	-1.81	0.20	0.1	9	7	14	U. S. Weather Bureau.	
Corsicana.	Navarro.	445	23	40.4	-6.8	74	25	5	13	42	0.40	-2.09	0.15	0	3	12	3	D. H. Winn.	
Cottulla.	La Salle.	425	5								0.00	0.00	0	0				Holland Agricultural Co.	
Crockett.	Houston.	350	8	45.5		79	26	10	12	36	1.20		0.55	0	4	14	9	A. M. Rencher.	
Cuero.	De Witt.	177	22	51.4	-2.3	80	10†	17	13	52	0.48	-1.43	0.30	0	4	12	5	H. R. Frobose.	
Dallas.	Dallas.	466	23	39.9	-5.1	79	26	4	13	55	0.07	-2.09	0.05	T.	3	18	1	G. A. Eisenlohr.	
Danevang.	Wharton.	145	16	52.3	-1.8	80	26	15	12	55	0.90	-1.90	0.30	0	3	19	4	H. P. Hermansen.	
Decatur.	Wise.	1,047	16								0.00	-1.37	0.60	0	0	17	10	F. W. & D. C. Ry.	
Del Rio.	Valverde.	952	6	48.7	-1.5	89	26	22	12	48	T.	-1.68	T.	0	0	12	8	U. S. Weather Bureau.	
Devine.	Medina.	653	2	50.4		88	27	18	7†	52	0.46		0.18	T.	3	11	7	M. A. Keller.	
Dialville.	Cherokee.	575	8	43.6		74	26	8	12	48	0.56		0.38	T.	2	11	12	J. M. B. McKnight.	
Dilley.	Frio.	569	2								0.00	0.00	0	0			John W. Miller.		
Dublin.	Erath.	1,406	16	38.1	-7.5	79	25	-1	12	54	T.	-1.20	T.	0	0	12	14	Jno. O. Shafer.	
Duval.	Travis.	820	23	45.4	-4.8	82	26	12	7†	46	0.30	-1.26	0.30	T.	1	17	5	J. C. Edgar.	
Eagle Pass.	Maverick.	800	35	50.8	-2.6	87	26	21	13	45	0.04	-0.67	0.04	0	1	15	5	Charles Tarver.	
Eastland.	Eastland.	1,420	5	36.8		83	26	1	12	55	0.15		0.15	0	1	12	5	Win. D. Cook.	
Edna.	Jackson.	71	3								0.00	0.00	0	0			E. L. Faires.		
El Paso.	El Paso.	3,762	33	45.7	+1.6	76	25	23	3	38	0.00	-0.51	0.00	0	0	21	5	U. S. Weather Bureau.	
Encinal.	La Salle.	558	4			91	26				0.00	0.00	0	0			H. C. Braden.		
Eola.	Concho.	1									0.00	0.00	0	0			E. W. Neal.		
Fairland.	Burnet.	1,000	23	46.2	-2.2	87	26†	11	12	52	0.06	-1.45	0.03	0	3	17	5	R. L. Bush.	
Falfurrias.	Brooks.	456.0	88								0.39	0.21	0	3	18	4	W. A. Gardner.		
Flatonia.	Fayette.	465	4	49.0		80	26	13	12	42	0.41		0.18	0	6	16	3	Fred W. Laux.	
Flint.	Smith.	483	2	41.8		73	25	6	12	40	0.79		0.53	T.	4	12	10	F. C. C. Carter.	
Fort Clark.	Kinney.	1,050	41	48.2	-2.4	81	29	19	11†	38	T.	-0.81	T.	0	28	2	1	Post Hospital.	
Fort Davis.	Jeff Davis.	5,000	33								0.00	-0.54	0.00	0	0			T. J. Dumble.	
Fort McIntosh.	Webb.	460	44	55.0	0.0	93	25	20	12	60	0.00	-0.80	0.00	0	0	14	3	Post Hospital.	
Fort Stockton.	Pecos.	3,050	15	49.2	+3.9	80	24†	11	12	49	0.05	-0.33	0.05	T.	1	15	14	H. H. Butz.	
Fort Worth.	Tarrant.	670	17	40.6	-3.7	77	26	1	12	48	0.17	-0.76	0.17	T.	1	11	9	U. S. Weather Bureau.	
Fredericksburg.	Gillespie.	1,742	23	45.7	-3.4	82	26	9	12	39	0.16	-1.15	0.06	0.5	4	15	7	Arthur Striegler.	
Gainesville.	Cooke.	738	22																

TABLE 1.—Climatological data for January, 1912. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<b>Texas—Continued.</b>																			
Hewitt.	McLennan.	664	17							T.	- 1.64	T.	0	0	18	1	12	n.	I. H. Earle.
Hico.	Hamilton.	1	9	42.8		81	29	5	13	42	0.01	0.01	0	1	18	1	12	John A. Eakins.	
Hillsboro.	Hill.	628	9	42.8		80	26	17	13	48	0.11	0.11	0	1	17	8	6	W. G. Escott.	
Hondo.	Medina.	901	13	47.4		79	26	15	12	42	- 0.05	- 0.20	0	2	10	17	4	H. E. Haags.	
Houston.	Harris.	138	22	48.6	- 4.3	79	26	10	13	47	1.73	- 2.13	0.1	10	9	6	16	U. S. Weather Bureau.	
Huntsville.	Walker.	400	28	44.2	- 5.2	76	26	10	13	47	2.08	- 1.79	0	1	10	0	21	W. Y. Barr.	
Jayton.	Kent.	2								0.00	0.00	0	0	25	0	6	Wichita Valley Ry. Co.		
Jewett.	Leon.	496	8	42.4		80	26	8	12	64	0.10	0.10	T.	1	23	5	3	Earle Adkisson.	
Junction.	Kimble.	1,645	11	46.8		85	27	10	12	60	0.00	- 0.75	0	0	18	5	8	Judge John S. Durst.	
Kaufman.	Kaufman.	448	13	40.4	- 0.9	79	27	4	12	46	0.33	- 1.11	0	2	10	17	4	B. J. Hubbard.	
Kerrville.	Kerr.	1,650	16	47.5	- 1.8	88	25	11	12	46	0.07	- 0.99	0.07	1	14	13	4	Robert E. Horne.	
Killeen.	Bell.	43.7				86	26	9	7	41	T.	0	0	15	6	10	J. E. Root, Jr.		
Knickerbocker.	Tom Green.	2,030	8	44.6		83	26	7	12	49	0.03	0.03	0	1	21	8	2	Joe Tweedy.	
Kopperl.	Bosque.	576	2							0.00	- 1.15	0	0	12	6	13	T. A. Johnson.		
Lagrange.	Fayette.	276	2							0.36	0.14	0	0	5	18	2	August Hermes.		
Lamesa.	Dawson.	2,500	2							0.20	0.20	0	1				S. D. Austin.		
Lampasas.	Lampasas.	1,026	20	42.6	- 5.3	87	25	9	12	60	T.	- 1.43	T.	0	16	2	Mrs. K. I. Webber.		
La Parra.	Willacy.	38	10					24	13	51	0.79	- 0.16	0.40	0	6	15	Ino. G. Kenedy.		
Laureles Ranch.	Nueces.	20	12							0.97	+ 0.27	0	2				Matt Cody.		
Liberty.	Liberty.	38	8	49.7		82	26	18	12	51	1.31	0.45	T.	5	13	4	14	Mrs. Fannie Sneed.	
Llano.	Llano.	1,040	21	43.0	- 7.4	80	25	10	12	46	T.	- 0.72	T.	0	21	8	E. W. Torrence.		
Llano Grande.	Hildago.	86	4	54.1		90	26	13	13	45	1.44	0.42	0	5	19	2	M. D. Wardlow.		
Long Lake.	Anderson.	229	7							0.18	0.10	0	2	7	2	Geo. W. Ellis.			
Longview.	Gregg.	336	26	41.5	- 5.9	75	27	10	12	45	2.31	- 1.87	T.	7	19	1	11	C. A. Propst.	
Lubbock.	Lubbock.	1								0.02	0.02	T.	1	17	10	4	A. L. Paschall.		
Lufkin.	Angelina.	325	5	44.4		79	26	11	12	38	2.55	- 1.50	T.	3	23	2	6	T. A. King.	
Luling.	Caldwell.	418	23	47.7	- 3.5	78	26	16	13	42	0.67	- 1.11	0.37	0	5	12	2	John Carter.	
McGregor.	McLennan.	713	2							0.00	0.00	0	0				W. H. Whitley.		
Marathon.	Brewster.	4,043	2	47.2		73	26	12	12	46	0.05	0.05	T.	1	13	8	10	Rev. A. P. Willis.	
Marble Falls.	Burnet.	771	4							0.00	0.00	T.	0	8	9	14	R. H. Cochran.		
Marfa.	Presidio.	375	4							0.00	0.00	0	0				R. K. Colquitt.		
Marshall.	Harrison.	375	3	42.2		87	18	11	13	50	4.13	2.32	0.5	6	10	15	Lee Scott.		
Matagorda.	Matagorda.	12	2							0.92	0.70	0	7	21	5	5	W. E. McNabb.		
Mexia.	Limestone.	537	8	40.2		74	26	5	12	42	0.33	0.10	T.	5	7	6	18	Miss Josephine Newman.	
Midland.	Midland.	510	30	45.3		79	26	9	12	47	1.00	1.00	0	1	16	12	3	W. M. Midkiff.	
Mission.	Hildago.	140	2	58.2		92	25	22	12	49	2.24	1.55	0	7	14	13	4	Chas. M. Kennedy.	
Mont Belvieu.	Chambers.	65	2							0.00	0.00	0	1				A. R. Shearer.		
Mountain View.	Pecos.	2,900	2							0.02	0.02	0.2	1				Lucius W. Gosselin.		
Mount Blanco.	Crosby.	2,750	23	35.7	- 4.7	75	26	0	7	47	T.	- 0.63	T.	0	19	4	8	H. C. Smith.	
Nacogdoches.	Nacogdoches.	271	13	44.4	- 3.2	76	25	11	11	35	1.96	- 0.88	T.	3	14	1	16	Miss Mary Hofmann.	
New Braunfels.	Comal.	720	23	47.4	- 4.6	80	26	16	13	42	0.46	- 1.22	0.38	0.4	3	13	10	8	J. Giesecke.
Palestine.	Anderson.	510	30	42.7	- 3.8	73	26	6	12	54	0.14	- 3.73	T.	3	7	11	13	U. S. Weather Bureau.	
Panter.	Hood.	1,000	23							0.05	- 1.63	0.05	0	1				E. H. Snider.	
Pearl.	Frio.	629	2							0.33	0.33	0	0				Earnest De Vilbiss.		
Pierce.	Wharton.	102	6	47.4		80	26	10	12	60	0.55	0.35	0	2	12	10	9	R. B. Pointer.	
Plainview.	Hale.	3,370	16	35.6	- 6.6	74	26	- 3	7	52	T.	- 0.44	T.	0	0	19	6	I. F. Sander.	
Port Arthur.	Jefferson.	1								3.50	0.00	0	0				Griffing Bros. Co.		
Port Lavaca.	Calhoun.	20	11	51.7	- 4.0	81	18	18	13	40	0.54	- 0.73	0.54	0	1	11	15	J. H. Bickford.	
Post City.	Garza.	2,700	2							0.00	0.00	0	0	12	12	7	sw.		
Raymondville.	Callahan.	1,591	1							1.48	0.32	T.	12	8	13	10	S. M. Davis.		
Ricardo.	Nueces.	57	3	56.0		85	26	18	13	43	0.92	0.24	0	12	18	3	10	C. H. Pease.	
Riverside.	Walker.	169	8							1.45	1.45	0	1	11	0	20	AL Patterson.		
Rockport.	Tyler.	136	8							0.18	0.05	0	4	11	6	14	Edward Jones.		
Rossville.	Aansas.	12	11	54.0	+ 0.3	77	18	20	13	36	0.77	- 1.16	0.45	0.2	4	6	8	Mrs. G. Grewe.	
Runge.	Atascosa.	558	5	49.2		80	26	15	13	50	0.36	0.09	0	9	16	8	W. F. M. Ross.		
Sabinol.	Karnes.	308	17							0.00	- 1.13	0.00	0	0			Reiffert & Frobose.		
Salado.	Uvalde.	964	8	50.3		86	26	15	13	57	0.17	0.13	0	2	14	4	13	Jas. Johnston.	
San Angelo.	Bell.	2								T.	T.	0	0	12	1	18	L. M. Crockett.		
San Antonio.	Tom Green.	1,847	21	42.8	- 1.2	80	26	6	12	44	T.	- 0.70	T.	0	0	23	7	Sam Crowther.	
San Augustine.	Bexar.	701	27	48.8	- 2.3	83	26	18	13	50	0.28	- 1.40	0.17	0	4	11	6	U. S. Weather Bureau.	
San Juanito.	San Augustine.	360	3	45.1		78	26	22	14	46	4.24	1.64	T.	6	9	12	10	F. A. Wilson.	
San Marcos.	Hidalgo.	3	57.5			89	26	22	13	39	0.91	0.26	0	8	10	1	20	J. B. McAllen.	
San Marcos.	Hays.	588	19	46.4	- 4.7	78	26	15	13	45	1.17	- 0.26	0.57	0	3	14	0	17	Miss L. C. Ford.
San Saba.	San Saba.	1,712	11	42.6	- 6.4	81	26	7	12	53	0.00	0.00	0	0	21	0	10	Jas. Burns.	
Santa Gertrudes.	Nueces.	12								1.43	+ 0.73	0.60	0	5	10	8	J. B. Wright, jr.		
Sealy.	Austin.	201	1							0.80	0.49	T.	5	10	8	13	O. H. Albert.		
Seymour.	Baylor.	1,320	6	35.0		84	26	0	8	63	T.	T.	0	11	0	20	S. C. Lee.		
Snyder.	Scurry.	12	35.0			81	26	1	12	50	0.00	0.00	0	0	20	6	J. Allen Weaver.		
Somerville.	Burleson.	251	3	49.0		85	26	11	12	41	T.	T.	0	0	16	5	Ed. Herbst.		
Sonora.	Sutton.	2,200	8	44.4		84	26	9	12	56	0.00	0.00	0	0	31	0	H. Thiers.		
Spur.	Dickens.	2,300	1	35.7		78	26	0	7	55	T.	T.	0	0	23	5	J. D. Reagan.		
Stamford.	Jones.	1	33.8			73	26	- 1	7	40	0.00	0.00	0	0	16	6	T. A. Williams.		
Stowell.	Chambers.	1								3.00	1.10	0	4	14	0	17	Arthur Bailey.		
Sugarland.	Fort Bend.	79	11			80	25			1.46	0.47	0	5	19	8	4	Paul Rudat.		
Sutherland Springs **.	Wilson.	424	2	50.6		78	17	13	13	48	0.48	0.28	0	6	13	5	13	F. M. Getzendaner.	
Taylor.	Williamson.	583	11	43.9	- 3.6	80	26	11	12	56	0.10	- 2.72	0.06	T.	5	15	11	5	Valentine Development Co.
Temple.	Bell.	630	23	43.9	- 3.1	77	25†	8	13	35	0.00	- 2.10	0.00	0	0	16	6	Frank Fitzpatrick.	
Theodore.	Winkler.	2								0.01	0.01	0	1				C. C. Zirjacks.		
Thurber.	Erath.	2			</td														

TABLE 2.—*Daily precipitation for January, 1912. District No. 8, Texas and Rio Grande Valley.*

Stations.	Watershed.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.	
Colorado.																																		
Blanca.	Rio Grande.																																	
Cumbres.	do.																																	
Garnett.	do.																																	
Hermit.	do.																																	
La Veta Pass.	do.																																	
Manassa.	do.																																	
Platoro.	do.																																	
Saguache.	do.																																	
San Luis.	do.																																	
Wagon Wheel Gap Experiment Sta- tion.	do.																																	
New Mexico.																																		
Agricultural College	Rio Grande.																																	
Alamogordo (near).	do.																																	
Alamogordo.	do.																																	
Alamos Ranch.	do.																																	
Albuquerque.	do.																																	
Ancho.	do.																																	
Anchor Mine.	do.																																	
Artesia.	Pecos																																	
Aspen Grove Ranch	Rio Grande.																																	
Bateman's Ranch.	do.																																	
Berino.	do.																																	
Bluewater.	do.																																	
Bosz.	Pecos																																	
Capitan.	do.																																	
Carlsbad.	do.																																	
Carrizozo.	Rio Grande.																																	
Chama.	do.																																	
Cloudcroft.	Pecos																																	
Corona.	do.																																	
Coyote.	Rio Grande.																																	
Cundiyo.	do.																																	
Demonstration Farm.	Pecos																																	
Duran.	do.																																	
Escondido.	Rio Grande.																																	
Espanola.	do.																																	
Estancia.	do.																																	
Fort Stanton.	Pecos																																	
Fort Sumner.	do.																																	
Gallinas.	do.																																	
Gallinas Planting Station.	do.																																	
Glorietta Ranch.	Rio Grande.																																	
Harvey's Upper Ranch.	Pecos																																	
Hillsboro.	Rio Grande.																																	
Hodges.	do.																																	
Hondo Reservoir.	Pecos																																	
Jemez Springs.	Rio Grande.																																	
Knowles.	do.																																	
Laguna.	Rio Grande.																																	
Lagunita.	Pecos																																	
Lake Valley.	Rio Grande.																																	
Lake Wood.	Pecos																																	
Las Vegas.	do.																																	
Liston.	do.																																	
Los Lunas (near).	Rio Grande.																																	
Magdalena.	do.																																	
Mescalero.	do.																																	
Mineral Hill.	do.																																	
Monterey.	Rio Grande.																																	
Mountainside.	do.																																	
Newman.	do.																																	
Noria.	do.																																	
Orogrande.	do.																																	
Oscura.	do.																																	
Otis.	Pecos																																	
Pastura.	Pecos																																	
Placitas (near).	Rio Grande.																																	
Plainview.	Pecos																																	
Red River Canyon.	Rio Grande.																																	
Rincon.	do.																																	
Rio Grande Dam.	do.																																	
Rio Grande Industrial School.	do.																																	
Rosedale.	Pecos																																	
Roswell.	T.																																	
San Marcial.	Rio Grande.																																	
San Rafael.	do.																																	

TABLE 2.—*Daily precipitation for January, 1912. District No. 8—Continued.*

TABLE 2.—*Daily precipitation for January, 1912. District No. 8—Continued.*

\* Precipitation included in that of the next measurement.

\* Precipitation included in that of the  
† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures for January, 1912. District No. 8, Texas and Rio Grande Valley.*

Date.	Colorado.				New Mexico.												Texas.											
	Garnett.	San Luis.	Agricultural College.		Carlsbad.		Fort Stanton.		Mountain-air.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Springs.		Brownsville.		Corpus Christi.			
			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	20	-17	.....	.....	46	25	50	16	44	10	38	7	38	12	50	14	26	6	38	18	52	28	53	22	48	40	50	41
2....	22	-19	.....	.....	42	26	46	25	41	11	38	0	32	10	38	13	24	4	39	15	20	21	38	24	54	46	52	47
3....	22	-20	.....	.....	48	22	55	19	35	8	39	3	40	8	51	13	26	7	38	19	37	19	38	25	53	48	52	47
4....	27	-15	.....	.....	48	21	53	20	35	21	44	7	48	15	52	18	34	10	40	24	37	18	43	15	56	44	50	34
5....	29	- 7	.....	.....	47	29	49	32	55	20	44	14	44	24	44	25	35	11	54	21	24	24	58	25	66	42	56	39
6....	29	6	.....	.....	58	26	55	30	50	25	43	21	45	22	47	18	30	11	46	18	45	6	43	13	76	53	74	33
7....	36	- 5	.....	.....	62	23	68	15	57	12	50	18	50	20	62	12	39	11	55	20	38	3	49	7	64	31	33	25
8....	25	6	.....	.....	59	32	61	40	47	29	44	45	28	54	23	32	13	51	15	38	12	45	14	74	52	58	33	
9....	32	-10	.....	.....	61	19	71	18	63	18	52	24	55	22	63	14	43	13	57	28	55	20	50	22	58	32	47	32
10....	40	- 3	.....	.....	62	28	62	36	63	27	53	28	54	31	52	32	45	21	59	31	56	39	58	32	74	38	64	41
11....	43	6	.....	.....	60	33	69	43	53	15	46	25	45	32	61	14	36	19	50	16	48	8	54	18	82	56	77	41
12....	37	- 2	.....	.....	58	24	58	52	4	47	18	31	5	37	11	39	6	19	2	27	6	70	30	41	23	30	22	
13....	40	5	.....	.....	59	27	40	10	58	29	59	18	55	24	67	18	41	24	64	28	50	13	54	16	56	24	38	22
14....	47	7	.....	.....	60	29	69	15	65	27	56	24	60	26	67	22	48	21	63	23	66	22	66	24	58	36	62	33
15....	46	9	.....	.....	65	27	61	27	66	16	59	28	54	29	60	23	51	24	65	22	37	27	68	31	73	35	60	41
16....	40	10	.....	.....	59	26	64	25	68	22	58	24	58	30	60	22	50	24	66	28	64	26	68	38	74	42	68	44
17....	38	17	.....	.....	59	24	73	32	57	35	51	28	48	32	68	25	42	26	59	31	64	51	74	48	76	53	71	59
18....	36	2	.....	.....	62	26	62	30	55	26	56	24	46	20	52	28	41	20	50	28	61	27	65	32	81	62	78	47
19....	36	2	.....	.....	65	27	65	24	57	16	50	21	50	24	60	18	41	19	56	25	52	23	62	22	67	33	50	38
20....	41	3	.....	.....	60	24	64	22	61	21	51	15	48	20	59	27	41	15	55	22	52	27	55	25	76	42	56	44
21....	38	- 2	.....	.....	58	29	63	25	60	5	52	5	47	18	58	17	44	15	62	14	60	28	61	20	62	54	56	41
22....	45	2	.....	.....	63	28	65	20	63	12	56	12	53	24	61	18	50	18	59	20	59	38	65	29	62	54	50	50
23....	43	6	.....	.....	66	28	69	27	69	12	57	13	54	26	68	17	51	20	66	18	64	39	64	39	68	52	61	52
24....	43	5	.....	.....	65	21	74	27	67	16	60	17	54	30	73	21	49	23	65	31	74	36	73	30	76	60	61	55
25....	52	10	.....	.....	64	25	72	28	63	22	63	27	60	29	76	28	52	31	67	40	78	43	78	35	78	58	74	56
26....	51	5	.....	.....	68	23	83	30	67	21	62	30	55	30	77	31	54	23	73	38	81	36	78	32	87	64	73	60
27....	43	10	.....	.....	66	27	70	38	57	23	58	32	50	35	69	29	43	20	61	30	77	49	75	34	78	64	73	61
28....	42	12	.....	.....	65	26	60	28	43	22	38	20	38	20	43	25	36	20	48	27	58	37	64	38	78	65	73	56
29....	42	4	.....	.....	52	19	64	20	45	9	40	10	42	16	53	17	36	13	48	20	56	29	67	26	67	50	60	50
30....	40	3	.....	.....	61	16	67	17	54	13	55	11	50	20	62	17	43	15	60	17	61	30	64	24	70	38	68	43
31....	45	9	.....	.....	64	17	65	23	63	18	52	15	55	24	59	19	45	18	54	26	69	36	64	32	74	42	73	45
Mns..	37.7	1.3	.....	.....	59.1	25.2	62.8	25.2	56.5	18.2	50.7	18.3	49.0	23.2	58.0	20.1	40.8	17.0	55.1	23.2	54.2	26.4	58.7	25.7	68.9	46.0	60.1	43.0

**Texas.**

Date.	Del Rio.	El Paso.		Fort McIn-		Fort Stock-		Fort Worth.		Galveston.		Halletts-		Houston.		Lufkin.		Palestine.		Plainview.		San An-		Seymour.		Taylor.			
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	54	41	51	25	52	42	56	25	48	28	51	42	50	34	54	40	55	49	56	30	32	16	45	36	50	15	41	29	
2....	52	40	43	31	53	40	53	28	43	28	54	49	53	45	57	49	60	38	49	40	46	14	52	42	40	10	44	38	
3....	63	39	47	23	54	40	55	30	38	27	51	44	52	43	53	38	60	49	48	32	30	5	60	38	36	12	50	28	
4....	48	30	43	27	56	40	52	26	41	19	48	36	45	29	50	31	60	24	45	25	40	9	47	29	33	6	41	22	
5....	54	40	52	37	65	32	55	39	42	21	56	41	55	30	51	35	55	23	49	28	38	18	52	31	38	7	48	28	
6....	62	27	56	35	70	38	55	25	45	11	64	30	64	38	62	26	49	26	50	16	35	-3	63	23	39	3	57	15	
7....	34	24	63	29	65	30	60	17	27	6	53	29	38	17	33	22	27	16	12	51	-1	29	18	29	12	28	11	52	24
8....	65	28	60	44	75	33	55	30	40	15	51	33	57	29	52	29	37	24	39	25	40	70	29	37	0	50	26		
9....	55	24	61	31	64	27	70	22	52	51	51	29	56	25	49	25	40	16	43	19	57	13	53	26	50	28	51	19	
10....	52	35	60	43	70	40	65	38	58	34	61	51	67	32	64	35	63	29	61	35	55	34	50	38	41	2	60	35	
11....	75	28	58	43	87	38	70	45	57	9	66	38	73	57	72	30	58	49	68	14	44	-3	78	28	17	10	72	16	
12....	36	22	52	26	80	20	47	11	19	1	38	20	57	15	30	15	49	11	20	6	29	-3	32	18	58	7	25	11	
13....	45	22	61	27	54	22	69	20	30	7	37	22	39	17	41	17	22	13	31	10	55	13	41	15	49	2	38	12	
14....	68	24	63	33	70	27	75	34	63	16	52	34	64	25	57	30	42	22	54	21	61	25	64	28	60	35	63	25	
15....	69	33	66	31	78	31	66	28	47	30	56	41	68	32	59	39	57	27	49	32	56	23	63	34	52	20	51	34	
16....	66	38	60	34	78	36	78	36	67	27	60	48	71	51	61	39	50	27	59	30	68	27	71	35	73	15	68	27	
17....	66	50	65	42	78	35	78	48	69	57	63	57	73	54	70	56	70	48	66	51	66	29	73	56	65	37	71	57	
18....	67	42	57	35	79	38	69	39	63	30	71	40	73	49	72	36	67	40	64	32	69	42	69	59	20	68	32	63	22
19....	59	31	64	27	73	35	71	24	44	25	45	37	53	32	50	34	41	32	46	28	55	16	61	33	46	13	49	27	
20....	59	36	59	34	64	33	66	30	48	29	53	42	57	36	57	39	48	27	48	28	54	21	60	38	48	16	45	31	
21....	57	39	59	30	62	39	61	22	61	29	53	44	61	34	61	37	62	29	62	35	60	21	61	36	63	18	60	29	
22....	55	51	63	34	71	48	69	34	59	42	55	46	57	34	57	40	57	29	57	41	60	24	51	40	60	25	50	38	
23....	58	50	64	30	71	47	70	34	65	47	59	50	67	48	70	51	64	45	64	46	67	22	58	49	63	21	62	46	
24....	63	46	67	29	82	52	80	39	71	43	57	50	68	50	67	50	67	37	63	48	68	25	66	48	63	22	67	40	
25....	73	45	70	37	93	52	80	45	75	41	66	55	73	51	74	53	67	48	72	52	69	26	73	55	72	20	73	53	
26....	89	41	70	38	85	54	80	42	77	39	66	56	74	60	79	60	79	55	73	45	74	29	83	53	84	25	80	45	
27....	69	48	67	42	80	59	79	59	74	48	68	61	73	59	76	62	77	58	69	54	68	29	73	53	69	27	69	57	
28....	74	54	52	33	72	56	71	43	62	38	67	50	71	56	70	49	70	50	70	43	54	28	69	54	68	28	67	45	
29....	62	39	51	27	75	33	57	26	55	31	53	45	56	44	54	43	51	37	52	34	54	23	61	45	53	19	57	51	
30....	69	31	57	27	80	36	65	28	55	35	61	42	64	34	61	38	54	29	51	35	60	24	68	37	65	16	63	34	
31....	73	31	61	28	79	37	72	32	65	30	57	47	70	34	64	41	63	27	63	29	55	24	74	39	55	23	71	32	
Mns..	61.0	36.4	58.8	32.6	71.5	39.4	66.1	32.2	53.5	27.7	56.2	42.3	64.2	38.5	58.9	38.4	55.5	33.4	53.9	31.5	53.4	17.9	60.6	37.1	53.3	16.6	56.2	31.6	

\* b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

<sup>5</sup> Data are from standard instruments not supplied by the U. S. Weather Bureau.

Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.